

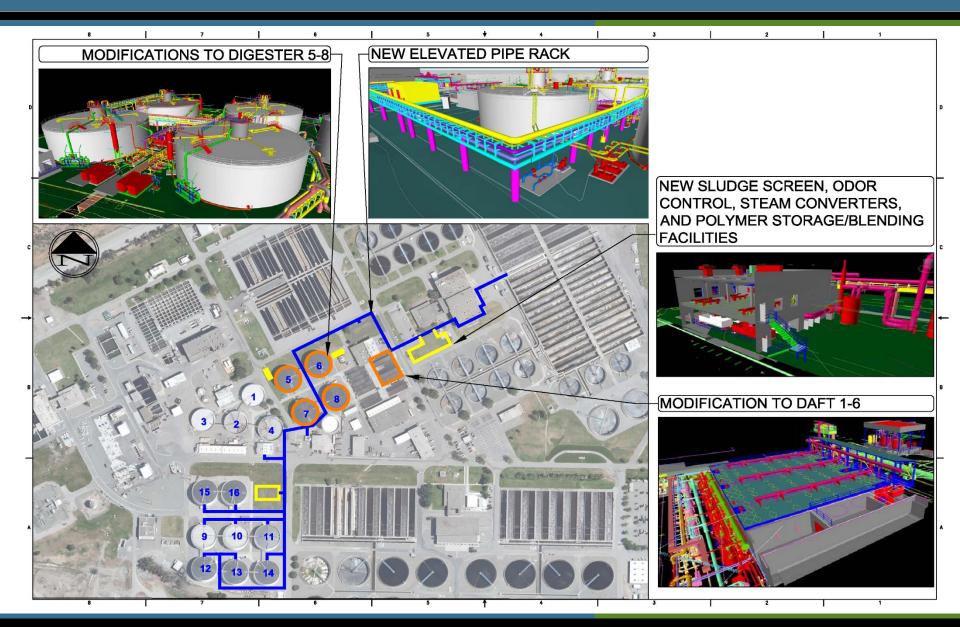
Construction Contingency Increase for Digester and Thickener Facilities Upgrade *TPAC Presentation – Item 5.A.*

November 9, 2017

CIP Program



Project Site / Scope



Construction Progress – 35% Complete



Rehabilitation of Digesters



New Sludge Screening Facility



New Above Ground Gas Piping System



Rehabilitation of DAFT Tanks

Contingency Committed to Date – 85%

Reason for Contract Change Orders (CCOs)	Approved and Pending CCOs to Date	
Underground Utility Conflicts and Unforeseen Conditions	\$2,506,434	
Unexpected Regulatory Requirements	\$1,472,171	
Design Changes	\$2,583,313	
Deteriorated Pipe Conditions	\$3,583,320	
Seismic Design Issues	\$1,000,000	
Hazardous Materials Mitigation	\$445,279	
TOTAL	\$11,590,517	

Concurrent delays to date total 140 working days.

Challenges Encountered During Construction Typical Use of Contingency



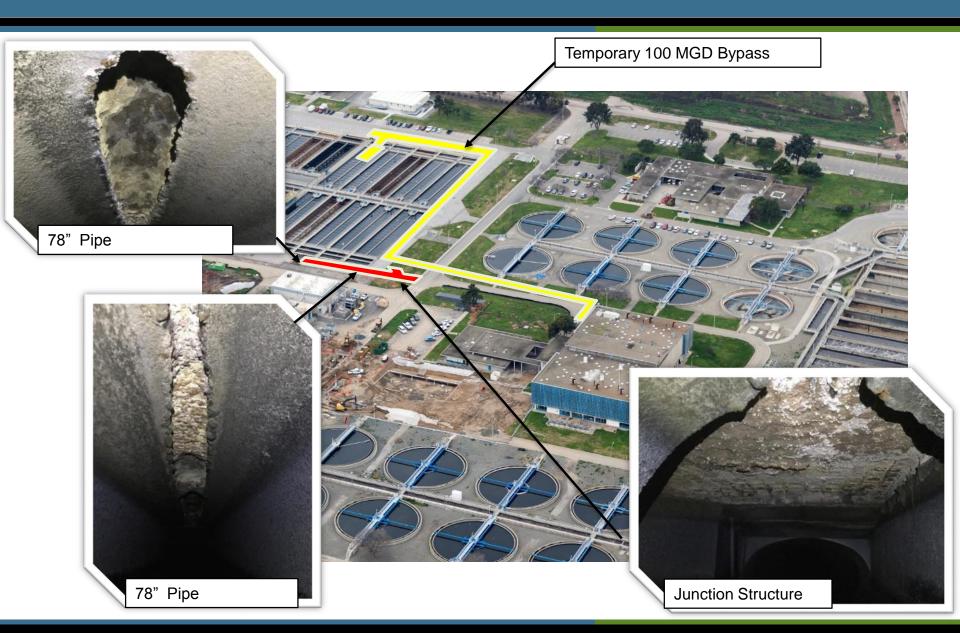




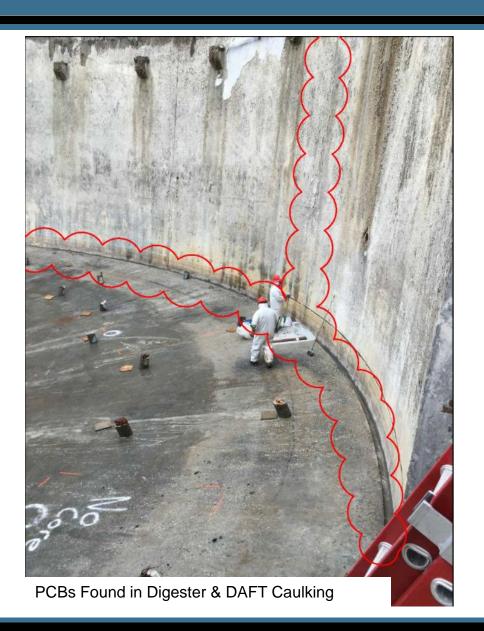


Design Changes During Construction

Deteriorated Pipe Conditions



Hazardous Materials and Seismic Design





Seismic Retrofit – Installation of Post-tension Cables



Temporary UV Protection of Seismic Cables

Recommended Contingency Increase - \$15M

Reason for Change Orders	Approved and Pending CCOs	Forecasted Need	Total
Underground Utility Conflicts and Unforeseen Conditions	\$2,506,434	\$1,000,000	\$3,506,434
Design Changes	\$2,583,313	\$2,000,000	\$4,583,313
Unexpected Regulatory Requirements	\$1,472,171	0	\$1,472,171
Delay Damages	0	\$3,200,000	\$3,200,000
Deteriorated Pipe Conditions	\$3,583,320	\$10,700,000	\$14,283,320
Seismic Design Issues (partial funding)*	\$1,000,000	TBD	\$1,000,000*
Hazardous Materials (partial funding)*	\$445,279	TBD	\$445,279*
Total	\$11,590,517	\$16,900,000	\$28,490,517
Approved Contingency			\$13,490,625
Additional Contingency Required			\$14,999,892

^{*} Final costs for hazardous materials mitigation, seismic design issues and associated delays are not known at this time.



Lessons Learned

- Subsurface Utility Investigations
- Utility Mapping and Record Drawings
- Condition Assessment of Connecting Structures
- Process Shutdown Verification
- Hazardous Materials Investigations





Next Steps

- Complete seismic design package
- Complete PCBs Remediation Plan / EPA Approval
- Return to TPAC and Council in next 6 months with updates on:
 - Additional schedule and cost impacts
 - Additional contingency increase request

Staff Recommendation

- a) Approve a \$15,000,000 increase to the construction contingency amount of \$13,490,625 for a revised total contingency amount of \$28,490,625 and increasing the contract not-to-exceed amount from \$121,415,625 to a total revised contract amount not-to-exceed \$136,415,625 for the 7382 Digester and Thickener Facilities Upgrade Project.
- b) Adopt the following 2017-2018 Appropriation Ordinance Amendments in the San José- Santa Clara Treatment Plant Capital Fund:
 - (1) Decrease the Yard Piping and Road Improvements Appropriation to the Environmental Services Department by \$8,000,000;
 - (2) Decrease the Aeration Tanks and Blower Rehabilitation Appropriation to the Environmental Services Department by \$7,000,000; and
 - (3) Increase the Digester and Thickener Facilities Upgrade Appropriation Environmental Services Department by \$15,000,000